DOCUMENT RESUME

ED 149 832 95 JC 780 114

TITLE	Texas Postsecondary Educational Supply and Demand Information System. A Preliminary Report by the State 1202 Commission for Postsecondary Educational Planning.
INSTITUTION	Texas Coll. and Univ. System, Austin. Coordinating Board.
SPONS AGENCY	Office of Education (DHEW), Washington, D.C.
PUB DATE	May 77
NOTE	91p.
AVAILABLE FROM	Postsecondary Educational Planning Coordinating Board, Texas College and University System, P.O. Box 12788, Capitol Station, Austin, Texas 78711 (no price quoted)
EDRS PRICE	MF-$0.83 Plus Postage. HC Not Available from EDRS.
DESCRIPTORS	Associate Degrees; *College Graduates; Community Colleges; *Employment Opportunities; Employment Potential; Guides; Higher Education; *Job Market; Job Training; Junior Colleges; *Labor Supply; Manpower Needs; *Occupations; Post Secondary Education; Vocational Education
IDENTIFIERS	*Texas

ABSTRACT

The document provides information on the relationship between the output of post-secondary education and career opportunities in the short term (one- to two-year) job market in Texas by identifying those vocational and academic programs which are overproducing, underproducing, or in balance in relation to occupational needs. Current certificate and associate degree program employment opportunities are presented in extensive charts which rate demand/supply for those occupations which seem to represent typical jobs applicable to graduates of each specified program, with indications of projected occupational needs to 1980 considering demand only. Occupational program areas include agriculture, distribution, health, home economics, office, technical, trade and industrial, and associate degree (arts/sciences). Four-year college, graduate, and professional degree programs are presented in the identical format, with program areas including liberal arts, science, fine arts, teacher education, agriculture, engineering, home economics, law, social services, library science, veterinary medicine, nursing, pharmacy, business administration, optometry, technology, and general. Bar graphs depicting short term employment opportunities for both programs are also presented, as well as a discussion of methodology and data sources. It is stressed that the information presented is applicable only until September 1, 1978. (LH)

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TEXAS POSTSECONDARY EDUCATIONAL
SUPPLY AND DEMAND INFORMATION SYSTEM

A PRELIMINARY REPORT
by
THE STATE 1202 COMMISSION
FOR
POSTSECONDARY EDUCATIONAL PLANNING

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★COORDINATING BOARD
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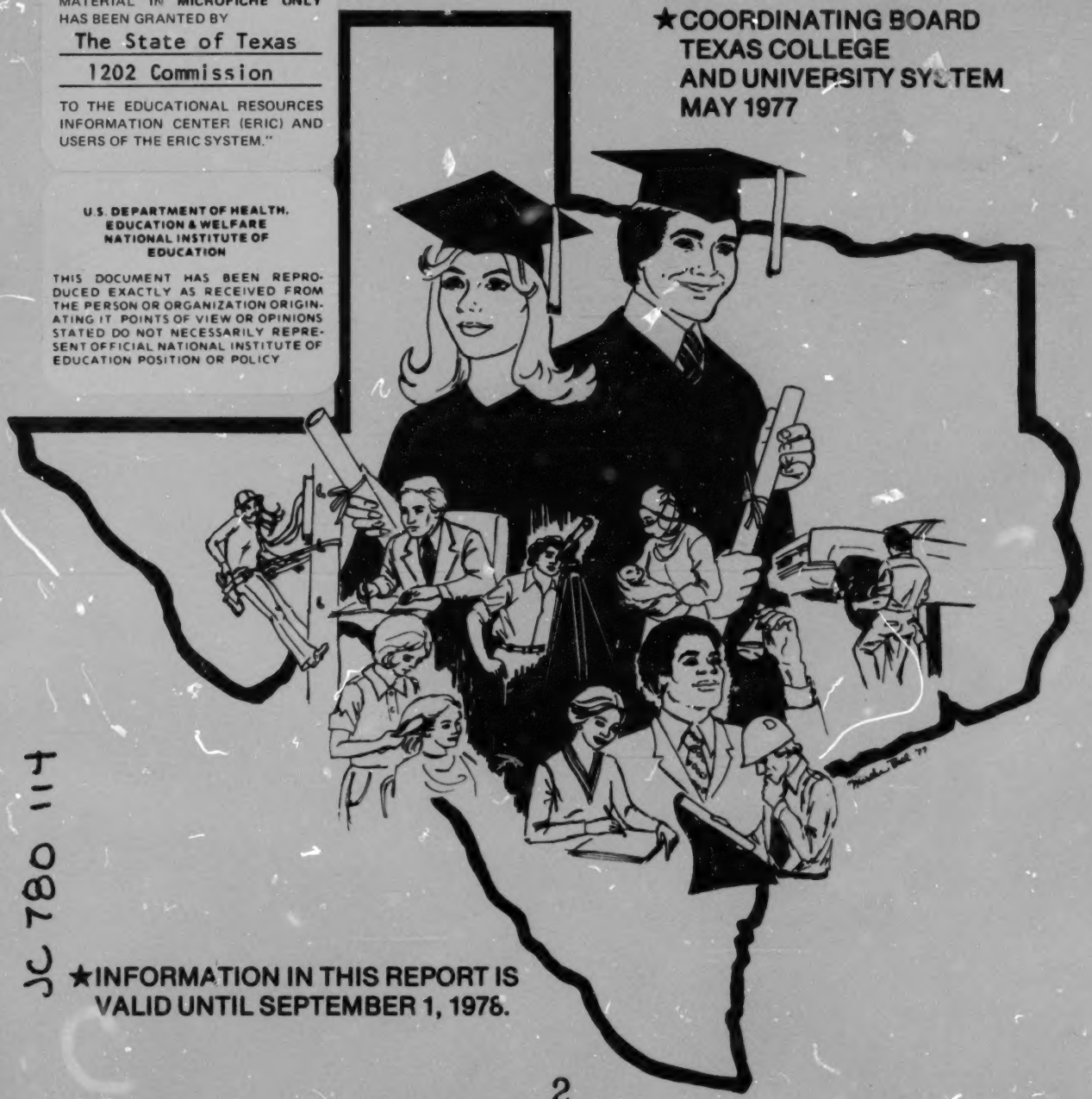
MAY 1977



JC 780 114

★INFORMATION IN THIS REPORT IS VALID UNTIL SEPTEMBER 1, 1978.

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EXTRACT

For over a year now I have spoken out about the increasing costs of higher education in Texas. I have addressed again and again the question of producing more graduates in some fields than there are jobs available. I have done this in the hope that our leaders in education will do something about it. I have also done it to help our young people to know that they should think twice about their college plans. They need to know that a college education doesn't guarantee a job. They need to know that they had better be careful what field of study they enter. They need to know that vocational and technical training is an honorable goal and also may give them a better opportunity to good jobs than some university degrees.

I have talked about this problem for over a year. Now it is time we begin to do something more than talk. I do not believe in a rigid government plan that controls all of the educational programs offered. I do not believe in an inflexible government plan that restricts choices made by the students. I do believe that using the marketplace is always a better way to match up supply and demand. Government plans never have been as effective as the marketplace.

* * * * *

First, I have requested the Coordinating Board to issue every spring a series of press releases describing employment opportunities in our State. These releases will particularly describe the situation in those fields where we are overproducing graduates and fields that offer good employment opportunities. This information will help students to stay out of those fields where we are producing too many graduates. This information will help our young people to make decisions about their educational plans after high school that can lead to good jobs. And when students stop enrolling in certain fields, then appropriate adjustments will follow inside our colleges and universities. Adjustments will be made in terms of both funding and staffing.

Second, I have requested the Coordinating Board and the Texas Education Agency to be sure that this information on employment is put in the hands of every high school counselor in Texas and is shared with local school boards, Parent Teacher Associations, and school administrators. I also want it placed in the hands of every career counselor in our colleges and universities. Then these people can guide our young people out of the fields where we are producing too many graduates and into fields where they can find productive and rewarding jobs.

Statement by Governor Dolph Briscoe
September 15, 1976

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TEXAS POSTSECONDARY EDUCATIONAL SUPPLY AND DEMAND INFORMATION SYSTEM

PRELIMINARY REPORT

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I

SUMMARY OF EMPLOYMENT OPPORTUNITIES

The figures that follow graphically depict the SHORT TERM (one to two year projection) employment opportunities which can be expected for students who successfully complete programs of study in the Texas Post-secondary Educational System. It is important to understand the conditions and limitations, explained in Section II of this report, under which these forecasts are made. These bar graphs are summary representations only and depict the situation for selected programs only. For more complete information on individual programs, refer to Section III for certificate and associate degree programs and Section IV for baccalaureate and graduate degree programs.

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FIGURE 1: CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS
SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS
(SELECTED FIELDS)

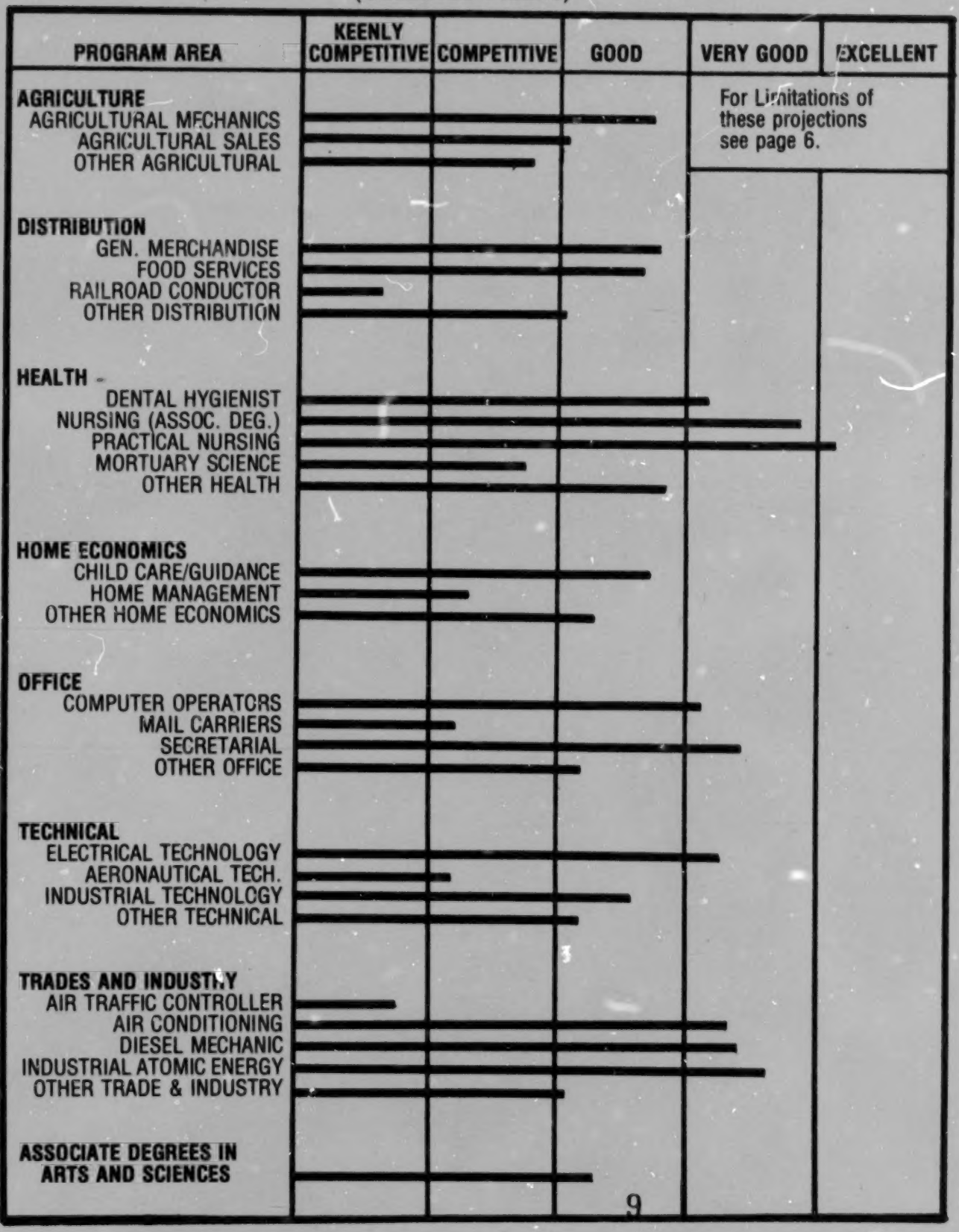
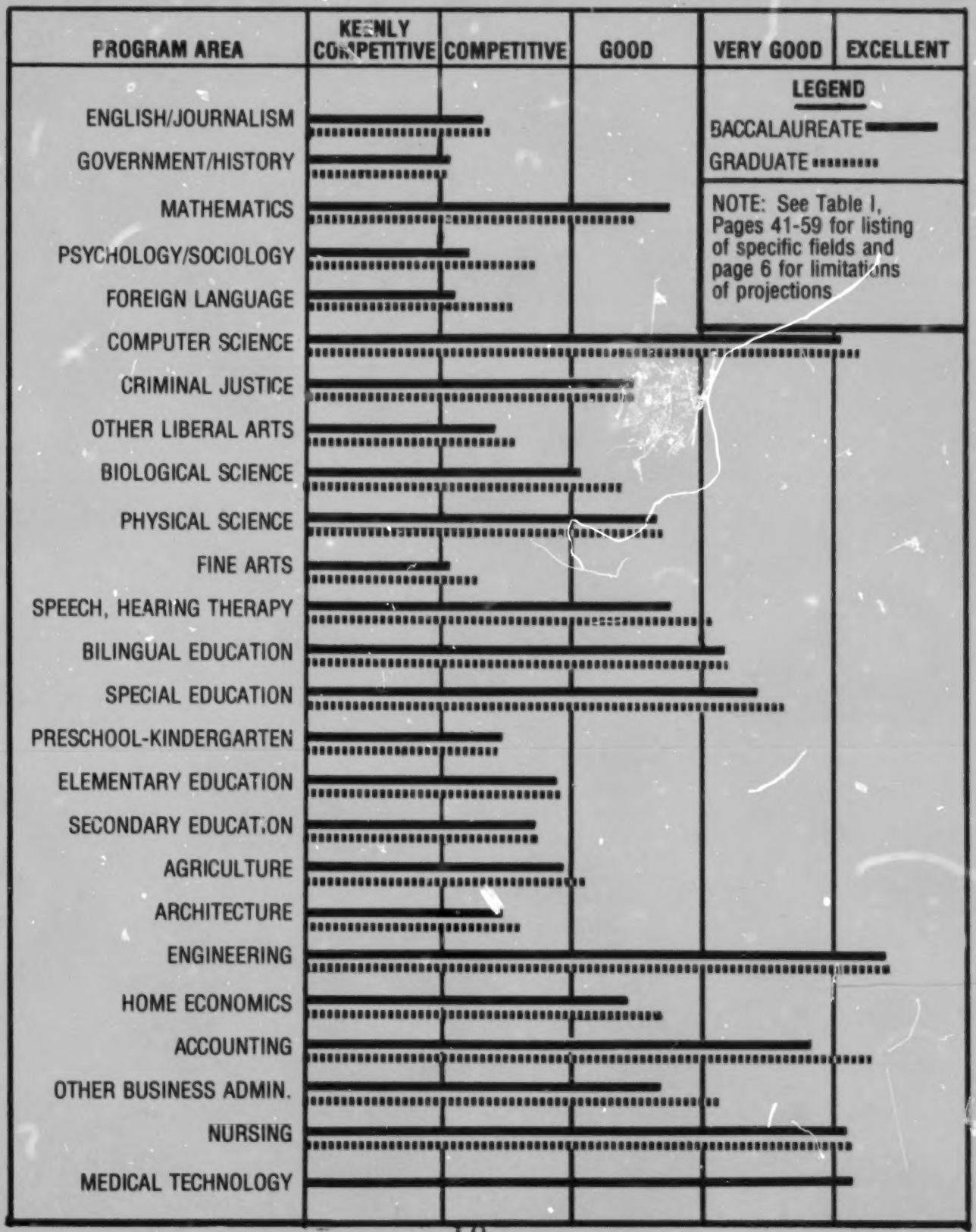


FIGURE 2: BACCALAUREATE AND GRADUATE DEGREE PROGRAMS
SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS
(SELECTED FIELDS)



II

INTRODUCTION

BACKGROUND: On July 8, 1976, Governor Briscoe designated the Coordinating Board, Texas College and University System as the State Comprehensive Postsecondary Educational Planning Commission (1202 Commission). The guidelines and federal grant funding authority for this commission are set forth in the Education Amendments of 1972 to the Higher Education Act of 1965.

After reviewing the provisions of these amendments and assessing the needs relating to comprehensive planning for postsecondary education in Texas, the 1202 Advisory Committee adopted, as its highest priority, the implementation of an educational-career information system. This system is to provide forecasts regarding balances or imbalances between the supply of trained individuals in specific postsecondary academic and vocational fields and the occupational demand for people in these fields.

This task is to be accomplished by a three-step development process. The first step consists of collecting, consolidating, verifying and disseminating currently available information which describes employment prospects for postsecondary education students. Subsequent steps will develop and implement, first on a pilot basis and then statewide, a methodology for collecting data and comparing projections of postsecondary educational supply and occupational demand.

PURPOSE OF THE REPORT: This report has been developed with two purposes in mind: (1) to initiate a procedure by which each institution is made aware of the need for a retrieval system for reporting supply-demand information for its students and (2) to provide information on the relationship between the output of postsecondary education and career opportunities in the short term job market. Specifically, it is the intent of this report to identify those vocational and academic programs which are overproducing, underproducing, or in balance in relation to occupational needs. With this type of knowledge available to counselors, students, parents and school administrators, better informed decisions can be made regarding a student's career choices.

The Bureau of Labor Statistics Occupational Outlook Handbook lists a number of occupations at the national level which are either oversupplied or undersupplied. In the past there has been no means available to connect these national statistics to projections which are applicable to the graduate of the Texas postsecondary educational system. This report marks the first step toward filling this hiatus.

ORGANIZATION OF THE REPORT: The substantive portions of this report are Section III concerning vocational education programs and Section IV dealing with four year college, graduate, and professional degree programs. The tables in these sections are keyed to programs offered by Texas postsecondary educational institutions.

The job opportunity for qualified graduates in each program is expressed in descriptive terms. These terms are slightly modified versions of those used by the U.S. Bureau of Labor Statistics. They are based on a

spread expressing the difference between demand (D) and supply (S) as a percentage of supply (S): $\frac{D-S}{S}$

The guidelines for applying these terms are:

Term for Expressing Job Opportunity	Demand-Supply Comparison $\frac{D-S}{S}$ (percent)	In relation to supply the demand will be:
EXCELLENT	+40% or More	MUCH GREATER
VERY GOOD	+16% to +39%	GREATER
GOOD	+15% to −15%	ROUGHLY IN BALANCE
COMPETITIVE	−16% and −39%	PROBABLY LESS
KEENLY COMPETITIVE	−40% and Below	LESS

Table I in each section indicates the projected short range employment opportunity STATEWIDE for educational programs and related occupations. These projections represent a consensus of all available reports and surveys.

For vocational programs, Section III, REGIONAL information is also provided in Table II. These regional projections of short range employment opportunity by educational program were determined by taking a consensus of reports from participating institutions in a given geographic area. Regional information has not been developed for the baccalaureate and graduate degree programs because the sampling methods used would not produce sufficient data to develop a reliable pattern for some of the geographic areas.

METHODOLOGY AND SOURCE OF DATA: The tables in Sections III and IV are derived from data which was already being collected by the following sources:

Texas Education Agency

- Student Information System (SIS) — A student follow-up information system for Public Junior/Community Colleges oriented primarily toward technical vocational programs. Through its various subsystems SIS is capable of providing information regarding students' educational intent; employment status of withdrawals, nonreturnees and graduates; and employer comments.
- Texas Supply-Demand Information System — A report which matches clusters of vocational education programs in Texas secondary, postsecondary, and proprietary schools with corresponding occupational clusters. Enrollments and completions in vocational education are compared to the projected number of new openings in the related occupations.
- School Personnel Supply and Demand Study — The number of Kindergarten through 12th grade teacher certificates and endorsements issued, by teaching field, has been compared with the number of new teachers hired in the public schools during the same time period.
- Veterans Administration Follow-Up Report — Employment status of graduates in programs from schools (including proprietary schools) approved for veteran's assistance.

Texas Employment Commission

- "Changing Horizons, A Profile of Jobs to 1980" — Forecast of job openings (expansion and replacement needs) by occupation for Texas and for seven Standard Metropolitan Statistical Areas.
- "Occupational Shortages" — A monthly list of occupations, as reported by local offices, for which the demand exceeds the available supply of qualified workers.

College and University Placement Offices

- Records and Reports — There is no centralized follow-up system for graduates of senior colleges and universities which is comparable to the Texas Student Information System for junior colleges. However, many colleges and universities, both private and public, maintain an office to assist graduates in finding employment and to serve as liaison with prospective employers. In those cases where records were available, they were used to assist in reaching a determination as to job opportunities for degree programs graduates.
- Task Forces — In order to synthesize the available supply and demand data and add a new dimension of expertise, Task Forces were formed using institutional representatives closely associated with counseling and placement. Twenty-five senior institutions and 32 junior/community colleges participated. These representatives individually completed work sheets listing related jobs and short term job opportunities for programs offered at their institutions. Information provided by the institutional representatives was based upon their knowledge of the job market or as a result of contacts with employers and graduates. Individual work sheets were consolidated and compared with other supply and demand data.

LIMITATIONS OF THE REPORT: The job opportunities forecasts in the tables, Chapter III and Chapter IV, are limited by three factors: (1) they are based on a sampling of what is happening now; (2) they are consolidated into statewide or regional forecasts, which may not reflect a specific local job market; and (3) they are applicable for a short time period and, as noted on the tables, are valid only until September 1, 1978. This latter factor is particularly limiting for those programs with a two-year or more lead time. *This information is based on the current situation and does not necessarily depict conditions at the completion of a program.*

The projections set forth in this report are based on the best current evaluations and are intended to be informational in nature. This report is not intended, and shall not be construed, to constitute a firm commitment regarding employment opportunities on the part of the Coordinating Board, Texas College and University System, or any institution participating in the preparation of the report.

There has been no attempt in this report to utilize a modeling system for forecasting total postsecondary education supply and comparing it with projected occupational demand. Instead, the technique has been to consolidate the available comparative supply and demand data and, using the best combined judgments of people closely associated with job placement of postsecondary education graduates, project employment prospects for

the next one or two years. Information collected to accomplish this was primarily associated with the degree granting junior and senior colleges and universities. Input from the proprietary school sector has been limited to data available from reports filed with the Texas Education Agency in compliance with federal regulations regarding follow-up on Veterans assistance programs. Task Force members from senior colleges and universities represented institutions with a combined total of graduates as follows: over 90% of all baccalaureate degrees awarded by public colleges and universities and 33% of all baccalaureate degrees awarded by independent colleges and universities; over 88% of all graduate/professional degrees awarded by public and 36% of all graduate/professional degrees awarded by independent colleges and universities. Junior college Task Force members represented institutions with over 76% of the total junior college enrollment.

As a caution, it must be recognized that employment opportunity evaluations in this report are based to a large degree on knowledge about those former students who responded to follow-up questionnaires or voluntarily registered with institutional placement offices. In general, this group is a significant sampling of the total students who completed junior and senior college programs.

PLANNED FOLLOW-UP: The State of Texas 1202 Commission has adopted as its highest priority the continuing publication of reports providing career information to postsecondary educational students. Therefore, annual reports will be prepared and disseminated, with up-date information issued as it becomes available.

The next full report will be published in the Spring of 1978. This report will follow essentially the same format as the current report with addition of some statistical information on the forecasts of graduates by programs and projected openings by related occupations. In order to accomplish this, the 1202 Commission plans to: (1) emphasize the collection of enrollment and completion data from proprietary schools and community training/retraining programs, and (2) develop and implement a methodology for forecasting postsecondary education completions by programs.

III

CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS

EMPLOYMENT OPPORTUNITIES

EXPLANATION OF THE TABLES: Program areas in which certificates and associate degrees in Arts and Sciences/Applied Arts and Applied Sciences are offered by Texas colleges are listed in the first column of Table I. Within each program area, the statewide employment opportunity for related occupations is shown on the same line as the specific occupations. Employment projections, which are valid only until September 1, 1978, are expressed in the following terms: EXCELLENT, demand is much greater than supply; VERY GOOD, demand is greater than supply; GOOD, there is a rough balance between demand and supply; COMPETITIVE, demand is probably less than supply; and KEENLY COMPETITIVE, demand is less than supply.

The occupations selected are those which, according to current placement and hiring practices, seem to represent typical jobs applicable to graduates of the program. There is no intent to provide an exhaustive list of all occupational possibilities for each program. Occupational titles and projected needs are based on information published by the Texas Employment Commission. The projected needs (last three columns of Table I), when available, refer to the projected rate of change for that specific occupation in relation to the average annual rate of change for all Texas occupations. The average annual rate of change for all Texas occupations is +5.3%. The projected needs refer to the requirements for additional workers to fill job openings created by both expansion and replacement needs. THE PROJECTED OCCUPATIONAL NEEDS CONSIDER DEMAND ONLY. Supply has not been taken into consideration. The AVERAGE needs rating represents a range of approximately +3% to +8% annual rate of change. Therefore, the BELOW (Average) rating falls below that range and the ABOVE (Average) rating is for projected needs greater than that range.

Because *demand only* is taken into consideration for projecting needs, BELOW (Average), AVERAGE, and ABOVE (Average) does not necessarily correspond to employment opportunities for a given occupation and program area. For example, even though the occupation of Flight Attendants (page 14) is projected to have needs greater (ABOVE Average) than the Texas average for all occupations, the employment opportunities for that occupation are projected to be "COMPETITIVE" due to the quantity of total persons training for or presently entering into that field.

In addition, the employment opportunities for the various program areas by REGIONS are shown in Table II. These ratings are for six Texas regions as indicated on the map, page 27.

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EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
		TOTAL ALL TEXAS OCCUPATIONS.		+5.3% (State Avg.)	
CERTIFICATES AND ASSOCIATE DEGREES IN APPLIED ARTS AND SCIENCES					
AGRICULTURAL OCCUPATIONS					
AGRICULTURAL PRODUCTION	Competitive	Farmers/Owners, Tenants	X		
	Competitive	Farm Managers		X	
	Competitive	Farm Supervisors	X		
	Competitive	Farm Laborers, Wage Workers	X		
	Competitive	Farm Laborers, Unpaid Family	X		
	Competitive	Farm Laborers, /Self Employed	X		
	Competitive	Farm Management Advisors	X		
AGRICULTURAL SUPPLIES/SERVICES	Good	Agricultural, Biological Technical/ except Health		X	
AGRICULTURAL MECHANICS	Good	Farm Implement Repairers		X	
AGRICULTURAL PRODUCTS	Competitive	Buyers, Shippers/Farm Products		X	
	Good	Sales Clerks/Agricultural, Retail Trade		X	
	Good	Sales/Associated Ag[illegible] Retail Trade		X	
	Good	Millers/Grain, Flour, [illegible]		X	
	Competitive	Produce Graders, Packers/except Factory		X	
ORNAMENTAL HORTICULTURE	Good	Gardeners, Groundskeepers/except Farm		X	
AGRICULTURAL RESOURCES	Competitive	Foresters, Conservationists		X	
FORESTRY	Competitive	Inspectors/Log and Lumber		X	
	Competitive	Loggers, Rafters, Woodchoppers		X	
OTHER AGRICULTURE	Competitive	Animal Caretakers/except Farm	X		

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
DISTRIBUTION OCCUPATIONS					
ADVERTISING SERVICES	Good	Advertising Agents, Sales Representatives		X	
APPAREL AND ACCESSORIES	Good Good	Demonstrators Sales Clerks/Retail Trade		X X	
FINANCE AND CREDIT	Competitive Good Good	Stock and Bond Sales Agent Bank/Financial Managers Credit/Collection Workers	X	 X X	
FLORISTRY	Good Good	Sales Clerks/Floristry Retail Trade Sales/Associated Floristry Retail Trade		X X	
FOOD DISTRIBUTION	Good	Sales Representatives/Manufacturing		X	
FOOD SERVICES	Good	Managers/Restaurants, Cafe, Bar		X	
GENERAL MERCHANDISE	Good Competitive	Sales Managers/Retail Trade Auctioneers		X X	
HARDWARE, BUILDING MATERIALS	Good	Sales Representatives/Wholesale Trade		X	
HOME FURNISHINGS	Good	Sales Associates/Retail Trade		X	
HOTEL AND LODGING	Competitive Competitive	Baggage Porters, Bellhops Housekeepers/Boarding and Lodging	X X		
INDUSTRIAL MARKETING	Good	Sales Managers/except Retail Trade		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
INSURANCE	Good	Insurance Agents, Brokers, etc.		X	
	Competitive	Insurance Adjusters, Examiners		X	
INTERNATIONAL TRADE	Competitive	Managers/Export			
	Good	Import-Export Agents			
PERSONAL SERVICES	Good				
PETROLEUM	Good	Garage Workers, Gas Station Attendants		X	
REAL ESTATE	Good	Real Estate Agents, Brokers			X
	Good	Real Estate Appraisers		X	
RECREATION AND TOURISM	Good	Recreation Workers		X	
	Good	Attendants/Recreation, Amusement		X	
TRANSPORTATION	Keenly Competitive	Railroad Conductors		X	
	Keenly Competitive	Ticket Station, Express Agents		X	
	Good	Bus Drivers		X	
	Keenly Competitive	Conductors, Operators/Urban Rail	X		
	Good	Delivery/Route Drivers		X	
	Good	Fork Lift/Tow Motor Operators		X	
	Competitive	Motor Operators, Mining, Factories, Logging	X		
	Good	Taxicab Drivers, Chauffeurs		X	
	Good	Truck Drivers	X		
	Good	Freight/Material Handlers	X		
	Keenly Competitive	Longshore Workers, Stevedores	X		
	Competitive	Flight Attendants			X
RETAIL TRADE, OTHER	Competitive	Hucksters, Peddlers		X	
	Good	Meat Wrappers/Retail Trade		X	
	Competitive	Packers, Wrappers/except Meat, Produce		X	
WHOLESALE TRADE, OTHER	Good	Sales Associations, Services, Construction		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
OTHER DISTRIBUTION	Good Competitive	Buyers/Wholesale, Retail Purchasing Agents, Buyers - n.e.c.*		X X	
HEALTH OCCUPATIONS					
DENTAL ASSISTANT	Good	Dental Assistants			X
DENTAL HYGIENIST	Very Good	Dental Hygienists			X
DENTAL LABORATORY TECHNOLOGY	Good	Dental Laboratory Technicians		X	
OTHER DENTAL	Good				
MEDICAL LABORATORY ASSISTING	Good	Other Health Technologists, Technicians			X
OTHER MEDICAL LAB TECHNOLOGY	Very Good	Clinical Lab Technologists, Technicians			X
NURSING (ASSOCIATE DEGREE)	Very Good	Registered Nurses			X
PRACTICAL NURSING (VOCATIONAL)	Excellent	Practical Nurses			X
NURSING ASSISTANT (AIDE)	Good Very Good	Lay Midwives, Birth Attendants Nurses Aides, Orderlies		X	
SURGICAL TECHNOLOGY	Good	Health Trainees	X		
OTHER NURSING	Very Good				
OCCUPATIONAL THERAPY	Good	Therapy Assistants			X
PHYSICAL THERAPY	Very Good	Therapists			X

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
OTHER REHABILITATION	Very Good				
RADIOLOGIC TECHNOLOGY	Very Good	Radiologic Technologists, Technicians			X
NUCLEAR MEDICAL TECHNOLOGY	Good				
OTHER RADIOLOGIC	Good				
OPHTHALMIC	Good				
ENVIRONMENTAL HEALTH	Good				
MENTAL HEALTH TECHNOLOGY	Good				
INHALATION THERAPY TECHNOLOGY	Very Good				
MEDICAL ASSISTANT	Very Good				
HEALTH AIDE	Good	Health Aides/except Nursing			X
MEDICAL EMERGENCY TECHNICIAN	Good				
MORTUARY SCIENCE	Competitive Competitive	Embalmers Funeral Directors		X X	
OTHER HEALTH	Good Good	Other Medical and Health Health Record Technologists, Technicians			X X
HOME ECONOMICS CARE AND GUIDANCE OF CHILDREN	Good Good	Child Care Workers Child Care Workers/except Private			X X

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
CLOTHING MANAGEMENT, PRODUCTION AND SERVICE	Competitive	Launderers/Private		X	
FOOD MANAGEMENT, PRODUCTION AND SERVICE	Good Good	Dietitians Cooks/Private		X X	
HOME FURNISHING, EQUIPMENT AND SERVICE	Good				
INSTITUTIONAL AND HOME MANAGEMENT AND SERVICE	Competitive Good	Home Management Advisors Housekeepers/Private		X X	
OTHER OCCUPATIONAL PREPARATION	Good				
OFFICE OCCUPATIONS					
ACCOUNTING AND COMPUTING OCCUPATIONS	Good Very Good Good Good Good Good	Estimators, Investigators - n.e.c. Bookkeepers Cashiers Bookkeeping/Billing Operators Calculating Machine Operators Bank Tellers		X X X X X	 X
COMPUTER AND CONSOLE OPERATORS	Very Good	Computer/Peripheral Equipment Operators		X	
PROGRAMMERS	Good	Computer Programmers		X	
OTHER BUSINESS DATA PROCESSING	Very Good Good Competitive	Computer Systems Analysts Keypunch Operators Tabulating Machine Operators	 X	X X 	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
FILING, OFFICE MACHINE, AND CLERICAL OCCUPATIONS	Good	Duplicating Machine Operators		X	
	Good	File Clerks		X	
	Good	Billing Clerks			X
	Good	Payroll/Timekeeping Clerks		X	
	Good	Statistical Clerks		X	
	Good	Other Office Machine Operators			X
	Competitive	Proofreaders			X
	Good	Miscellaneous Clerical Workers — n.e.c.			X
INFORMATION COMMUNICATION OCCUPATIONS	Competitive	Telegraph Operators	X		
	Competitive	Telephone Operators		X	
	Competitive	Mail Carriers/Post Office	X		
	Competitive	Mail Handlers/except Post Office		X	
	Competitive	Postal Clerks	X		
	Competitive	Messengers, Office Helpers		X	
	Competitive	Telegraph Messengers	X		
	Good	Receptionists			X
	Good	Library Attendants, Assistants			X
	Competitive	Meter Readers/Utilities	X		
MATERIALS SUPPORT, TRANSPORTATION	Competitive	Expeditors, Production Controllers		X	
	Competitive	Shipping/Receiving Clerks		X	
	Good	Stock Clerks, Storekeepers		X	
	Competitive	Dispatchers, Starters/Vehicle		X	
	Competitive	Weighers		X	
PERSONNEL TRAINING AND RELATED OCCUPATIONS	Competitive	Personnel, Labor Relations		X	
STENOGRAPHIC, SECRETARIAL AND RELATED OCCUPATIONS	Very Good	Legal Secretaries			X
	Very Good	Medical Secretaries			X
	Very Good	Other Secretaries			X
	Very Good	Stenographers	X		
SUPERVISORY, ADMINISTRATIVE AND MANAGEMENT OCCUPATIONS	Good	Clerical Supervisors — n.e.c.		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
TYPING AND RELATED OCCUPATIONS	Very Good	Typists			X
OTHER OFFICE	Competitive	Assessors, Controllers		X	
	Good	Building Managers, Superintendents			X
	Good	Office Managers — n.e.c.		X	
	Good	Clerical Assistants/Social Welfare		X	
	Good	Collectors/Billing and Accounting		X	
	Good	Counter Clerks/except Food			X
	Competitive	Enumerators, Interviewers		X	
TECHNICAL OCCUPATIONS					
AERONAUTICAL TECHNOLOGY	Competitive				
ARCHITECTURAL TECHNOLOGY	Good				
AUTOMOTIVE TECHNOLOGY	Very Good				
CHEMICAL TECHNOLOGY	Competitive	Chemical Technicians	X		
CIVIL TECHNOLOGY	Good	Surveyors		X	
	Competitive	Surveyor's Helpers, Brush Clearers	X		
ELECTRICAL TECHNOLOGY	Very Good	Electrical/Electronic Technicians		X	
ELECTRONIC TECHNOLOGY	Good	Radio Operators		X	
ELECTROMECHANICAL TECHNOLOGY	Good				
ENVIRONMENTAL CONTROL TECHNOLOGY	Good				
INDUSTRIAL TECHNOLOGY	Good	Industrial Engineering Technicians		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
INSTRUMENTAL TECHNOLOGY	Good	Engineering/Science Technicians — n.e.c.		X	
MECHANICAL TECHNOLOGY	Good Good	Mechanical Engineering Technicians Tool Programmers/Numerical	X	 X	
METALLURGICAL TECHNOLOGY	Good				
SCIENTIFIC DATA TECHNOLOGY	Good	Other Computer Specialists		X	
COMMERCIAL PILOT TRAINING	Competitive	Airplane Pilots		X	
FIRE AND SAFETY TECHNOLOGY	Good				
FORESTRY TECHNOLOGY	Competitive				
OCEANOGRAPHIC TECHNOLOGY	Competitive	Officers, Pilots, Pursers/Shipping	X		
POLICE SCIENCE	Good Good	Marshals, Constables Police Officers, Detectives		 X	X
AIR POLLUTION TECHNOLOGY	Good				
WATER AND WASTE WATER TECHNOLOGY	Good				
OTHER TECHNICAL	Good	Other Technicians/except Health		X	
TRADE AND INDUSTRIAL OCCUPATIONS					
AIR CONDITIONING	Very Good	Air Conditioning, Heating, Refrigeration		X	
APPLIANCE REPAIR	Good	Household Appliance Mechanics		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
BODY AND FENDER REPAIR	Good	Auto Body Repairers	X		
AUTO MECHANICS	Very Good	Auto Mechanics		X	
OTHER AUTOMOTIVE	Good	Auto Accessories Installers	X		
AVIATION OCCUPATIONS	Good Competitive Keenly Competitive	Aircraft Mechanics Flight Engineers Air Traffic Controllers	 X	X X 	
BLUEPRINT READING	Good				
BUSINESS MACHINE MAINTENANCE	Good Good	Data Processing Machine Repairers Office Machine Repairers		X X	
COMMERCIAL ART OCCUPATIONS	Competitive Competitive Competitive	Designers Decorators, Window Dressers Sign Painters, Letterers	 X 	X X	
COMMERCIAL FISHERY OCCUPATIONS	Competitive Competitive	Fisher/Oyster Workers Boat Operators	X X		
COMMERCIAL PHOTOGRAPHY OCCUPATIONS	Competitive Competitive Competitive	Photographers Photographic Process Workers Motion Picture Projectionists		X X X	
CARPENTRY	Good Good	Carpenters Carpenter's Helpers	 X	X 	
ELECTRICITY	Good	Electricians		X	
MASONRY	Good Good	Brickmasons, Stonemasons Tilesetters	 X	X 	
PLUMBING AND PIPEFITTING	Very Good	Plumbers, Pipefitters		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

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VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
OTHER CONSTRUCTION AND MAINTENANCE	Good	Boilermakers		X	
	Good	Bulldozer Operators		X	
	Competitive	Carpet Installers		X	
	Good	Cement/Concrete Finishers	X		
	Good	Crane/Derrick/Hoist Operators		X	
	Good	Excavating/Grading Machine Operators		X	
	Competitive	Floor Layers/except Tile Setters		X	
	Good	Glaziers		X	
	Competitive	Millwrights		X	
	Good	Painters, Construction and Maintenance		X	
	Competitive	Paperhangers		X	
	Good	Plasterers		X	
	Good	Roofers, Slaters		X	
	Keenly Competitive	Shipfitters	X		
	Competitive	Stone Cutters, Stone Carvers		X	
	Good	Structural Metal Craftsmen		X	
	Good	Asbestos/Insulation Workers		X	
	Good	Assemblers		X	
	Competitive	Blasters	X		
	Good	Earth Drillers	X		
	Good	Dry Wall Installers, Lathers		X	
CUSTODIAL SERVICES	Good	Janitors, Sextons		X	
DIESEL MECHANICS	Very Good	Heavy Equipment Mechanics/Including Diesel		X	
DRAFTING OCCUPATIONS	Very Good	Drafters		X	
ELECTRICAL OCCUPATIONS	Good	Electric Power Line/Cable Workers	X		
	Good	Telephone Line Installers, Repairers	X		
ELECTRONIC OCCUPATIONS	Good	Telephone Installers, Repairers	X		
	Good	Radio/Television Repairers	X		
FABRIC MAINTENANCE SERVICES	Competitive	Clothing Ironers, Pressers		X	
	Competitive	Laundry/Dry Cleaning Operators — n.e.c.		X	
SUPERVISOR AND MANAGEMENT DEVELOPMENT	Good				

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

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			BELOW	AVERAGE	ABOVE
GRAPHIC ARTS OCCUPATIONS	Good	Compositors, Typesetters	X		
	Good	Printing Press/Plate Printers	X		
	Competitive	Electrotypers, Stereotypers	X		
	Competitive	Engravers/except Photoengravers		X	
	Competitive	Photoengravers, Lithographers		X	
	Competitive	Bookbinders		X	
INDUSTRIAL ATOMIC ENERGY OCCUPATIONS	Very Good				
INSTRUMENT MAINTENANCE AND REPAIR OCCUPATIONS	Competitive	Opticians, Lens Grinders, Polishers		X	
	Competitive	Jewelers, Watchmakers		X	
MARITIME OCCUPATIONS	Keenly Competitive	Sailors, Deckhands	X		
MACHINE SHOP	Very Good	Metal Job and Die Setters		X	
	Very Good	Machinists	X		
	Good	Pattern/Model Makers	X		
MACHINE TOOL OPERATION	Good	Drill Press Operatives		X	
	Good	Grinding Machine Operatives		X	
	Very Good	Lathe/Milling Machine Operatives	X		
	Very Good	Other Precision Machine Operatives		X	
SHEET METAL	Good	Sheet Metal Workers, Tinsmiths	X		
WELDING AND CUTTING	Good	Solderers	X		
	Very Good	Welders, Flame Cutters		X	
TOOL AND DIE MAKING	Very Good	Tool and Diemakers	X		
OTHER METALWORKING OCCUPATIONS	Competitive	Blacksmiths		X	
	Competitive	Forging/Hammering Workers		X	
	Competitive	Metal Molders	X		
	Competitive	Metal Rollers, Finishers	X		
	Good	Filers, Polishers, Sanders, Buffers	X		

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

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VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
OTHER METALWORKING OCCUPATIONS (CONT.)	Competitive	Furnace/Smelter Workers	X		
	Competitive	Metal Heaters	X		
	Competitive	Metal Platers		X	
	Competitive	Punch Stamping Press Operators		X	
	Competitive	Riveters, Fasteners		X	
METALLURGY OCCUPATIONS	Good	Heat Treaters, Annealers, etc.	X		
BARBERING	Competitive	Barbers		X	
COSMETOLOGY	Good	Hairdressers, Cosmetologists			X
OTHER PERSONAL SERVICES	Good	Personal Service Attendants — n.e.c.		X	
PLASTICS OCCUPATIONS	Goo				
FIRE FIGHTER TRAINING	Good	Fire Fighters, Fire Protection		X	
LAW ENFORCEMENT TRAINING	Good	Guards, Patrollers		X	
	Good	Sheriffs, Bailiffs		X	
OTHER PUBLIC SERVICES	Competitive	Public Construction Inspectors		X	
	Competitive	Inspectors/except Public Construction		X	
	Competitive	Other Inspectors		X	
	Good	Welfare Service Aides			X
QUANTITY FOOD OCCUPATIONS	Competitive	Bakers		X	
	Good	Cooks/except Private		X	
	Good	Meat Cutters, Butchers/except Manufacturing	X		
	Good	Meat Cutters, Butchers	X		
	Good	Food Counter/Fountain Workers		X	
	Good	Waiters		X	
	Good	Food Workers — n.e.c./except Private		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

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VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
REFRIGERATION	Very Good				
SMALL ENGINE REPAIR	Very Good				
STATIONARY ENERGY SOURCES OCCUPATIONS	Good	Stationary Engineers	X		
	Competitive	Furnace Tenders, Stokers/except Metal	X		
	Competitive	Power Station Operators	X		
TEXTILE PRODUCTION AND FABRICATION	Good	Dressmakers, Seamstresses/except Factory			X
	Competitive	Tailors		X	
	Competitive	Furriers	X		
	Competitive	Loom Fixers	X		
	Competitive	Dyers		X	
	Competitive	Milliners	X		
	Good	Sewers, Stitchers			X
	Competitive	Carders, Lappers, Combers	X		
	Keenly Competitive	Knitters, Loopers, Toppers		X	
	Competitive	Spinners, Twisters, Winders		X	
	Competitive	Weavers	X		
	Keenly Competitive	Other Textile Operatives	X		
LEATHER WORKING	Competitive	Shoemaking Machine Operatives	X		
	Good	Shoe Repairers		X	
UPHOLSTERING	Competitive	Upholsterers		X	
WOODWORKING OCCUPATIONS	Very Good	Cabinetmakers		X	
	Good	Furniture/Wood Finishers		X	
	Competitive	Sawyers		X	
OTHER TRADES AND INDUSTRIES	Competitive	Railroad/Car Shop Repairers	X		
	Good	Other Mechanics, Repairers		X	
	Good	Piano/Organ Tuners, Repairers		X	
	Good	Craft and Kindred Workers — n.e.c.		X	
	Competitive	Bottling/Canning Operatives		X	
	Competitive	Checkers, Examiners/except Manufacturing		X	
	Competitive	Cutting Operatives — n.e.c.		X	
	Competitive	Graders, Sorters/Manufacturing		X	

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE I STATEWIDE

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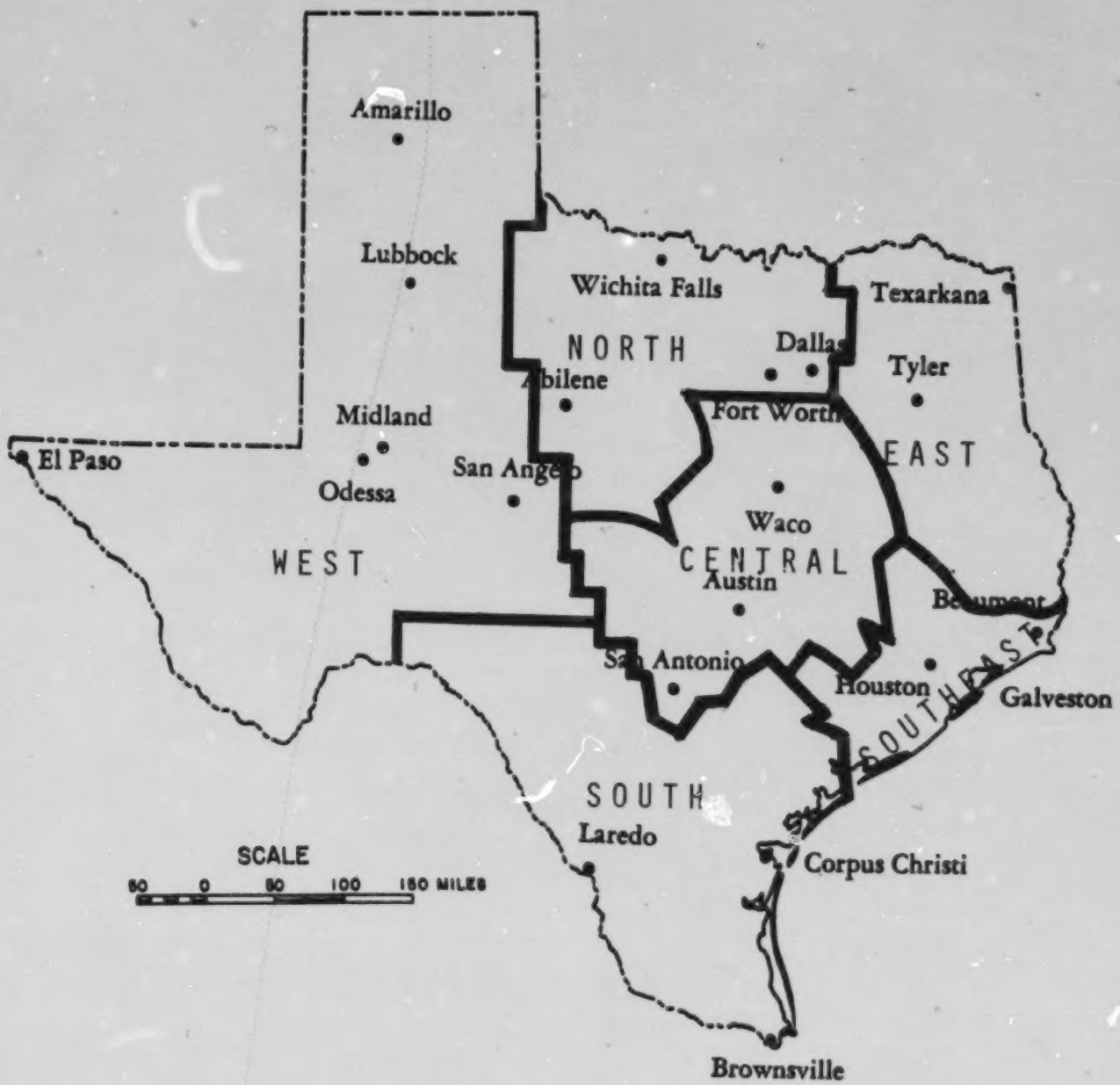
VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS	RELATED OCCUPATIONS	PROJECTED NEEDS (TO 1980) IN RELATED OCCUPATIONS COMPARED TO ALL TEXAS INDUSTRIES. DEMAND ONLY		
			BELOW	AVERAGE	ABOVE
	Competitive	Mine Operatives — n.e.c.	X		
	Competitive	Painters/Manufactured Articles	X		
	Good	Machine Operators/Misc. Specifics — n.e.c.		X	
ASSOCIATE DEGREES IN ARTS/SCIENCES	Good			X	

FOOTNOTES:

*n.e.c. — Not Elsewhere Classified

PUBLIC COMMUNITY COLLEGE EDUCATIONAL SUPPLY/DEMAND INFORMATION REGIONS



EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
CERTIFICATES AND ASSOCIATE DEGREES IN APPLIED ARTS/SCIENCES						
AGRICULTURE						
AGRICULTURAL PRODUCTION	Competitive	Competitive	Good	Good	Competitive	Competitive
AGRICULTURAL SUPPLIES/SERVICES	Competitive	Good	Good	No Rating	Competitive	No Rating
AGRICULTURAL MECHANICS	Good	Good	Good	No Rating	Good	Very Good
AGRICULTURAL PRODUCTS	Competitive	Competitive	Good	Excellent	Competitive	Good
ORNAMENTAL HORTICULTURE	Good	Good	Good	No Rating	Good	Good
AGRICULTURAL RESOURCES	Competitive	Competitive	Very Good	No Rating	Competitive	No Rating
FORESTRY	Competitive	Keenly Competitive	Good	No Rating	Competitive	No Rating
OTHER AGRICULTURE	Competitive	Competitive	Keenly Competitive	Good	Competitive	Good
DISTRIBUTION						
ADVERTISING SERVICES	Good	Good	Very Good	Good	Keenly Competitive	Competitive
APPAREL AND ACCESSORIES	Good	Competitive	Very Good	Very Good	Good	Good
FINANCE AND CREDIT	Good	Competitive	Competitive	Very Good	Good	Good
FLORISTRY	Good	Good	Good	Very Good	Good	No Rating
FOOD DISTRIBUTION	Good	Competitive	Competitive	Good	Competitive	No Rating
FOOD SERVICES	Good	Good	Very Good	Very Good	Good	Competitive
GENERAL MERCHANDISE	Competitive	Competitive	Good	Good	Good	Good

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL

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VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
HARDWARE, BUILDING MATERIALS	Good	Competitive	Competitive	Very Good	Good	No Rating
HOME FURNISHINGS	Good	Competitive	Competitive	Very Good	Good	No Rating
HOTEL AND LODGING	Good	Competitive	Keenly Competitive	Good	Competitive	No Rating
INDUSTRIAL MARKETING	Good	Good	Good	Excellent	Competitive	Good
INSURANCE	Good	Competitive	Keenly Competitive	Very Good	Good	No Rating
INTERNATIONAL TRADE	Keenly Competitive	Competitive	No Rating	Good	Competitive	Good
PERSONAL SERVICES	No Rating	Good	No Rating	No Rating	Very Good	No Rating
PETROLEUM	Competitive	Good	Good	Competitive	Very Good	Competitive
REAL ESTATE	Competitive	Good	Competitive	Very Good	Good	Good
RECREATION AND TOURISM	Competitive	Competitive	Competitive	Very Good	Good	Good
TRANSPORTATION	Competitive	Competitive	Competitive	Good	Competitive	Good
RETAIL TRADE, OTHER	Good	Competitive	Competitive	Good	Good	Competitive
WHOLESALE TRADE, OTHER	Good	Competitive	Very Good	No Rating	Competitive	No Rating
OTHER DISTRIBUTION	Good	Competitive	No Rating	Good	Competitive	No Rating
HEALTH						
DENTAL ASSISTANT	Good	Very Good	Good	Excellent	Good	Good
DENTAL HYGIENIST	Good	Very Good	Good	Very Good	Very Good	Good
DENTAL LABORATORY TECHNICIAN	Good	Very Good	Keenly Competitive	Very Good	Good	Good
OTHER DENTAL	Good	Good	No Rating	No Rating	No Rating	No Rating
MEDICAL LABORATORY ASSISTING	Good	Very Good	Good	Very Good	Good	Good

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VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
OTHER MEDICAL LAB TECHNOLOGY	Good	Very Good	Very Good	Very Good	Good	Very Good
NURSING (ASSOCIATE DEGREE)	Very Good	Excellent	Good	Excellent	Very Good	Excellent
PRACTICAL NURSING (VOCATIONAL)	Excellent	Excellent	Very Good	Excellent	Very Good	Very Good
NURSING ASSISTANT (AIDE)	Very Good	Good	Good	Excellent	Good	Good
SURGICAL TECHNOLOGY	Good	Keenly Competitive	Good	Good	Good	Competitive
OTHER NURSING	Good	Good	No Rating	Very Good	Very Good	Good
OCCUPATIONAL THERAPY	Good	Good	Keenly Competitive	Excellent	Very Good	Good
PHYSICAL THERAPY	Good	Good	Good	Excellent	Very Good	Good
OTHER REHABILITATION	Good	Good	No Rating	Excellent	Very Good	Good
RADIOLOGIC TECHNOLOGY	Very Good	Very Good	Very Good	Excellent	Very Good	Good
NUCLEAR MEDICAL TECHNOLOGY	Competitive	Good	No Rating	Excellent	Very Good	No Rating
OTHER RADIOLOGIC	Good	Good	No Rating	Very Good	Good	Good
OPHTHALMIC	Good	Good	Very Good	Very Good	Good	No Rating
ENVIRONMENTAL HEALTH	Competitive	Good	No Rating	Excellent	Good	Competitive
MENTAL HEALTH TECHNOLOGY	Competitive	Very Good	No Rating	Excellent	Good	Good
INHALATION THERAPY TECHNOLOGY	Very Good	Very Good	Excellent	Very Good	Very Good	Good
MEDICAL ASSISTANT	Good	Good	No Rating	Excellent	Excellent	Very Good
HEALTH AIDE	Very Good	Good	Keenly Competitive	Excellent	Good	Very Good
MEDICAL EMERGENCY TECHNICIAN	Good	Competitive	No Rating	Excellent	Good	Good
MORTUARY SCIENCE	Competitive	Competitive	Keenly Competitive	Good	Good	No Rating
OTHER HEALTH	Very Good	Good	Competitive	Good	Good	Good

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
HOME ECONOMICS						
CARE AND GUIDANCE OF CHILDREN	Very Good	Good	Competitive	Very Good	Very Good	Good
CLOTHING MANAGEMENT, PRODUCTION AND SERVICE	Good	Competitive	Keenly Competitive	Good	Good	No Rating
FOOD MANAGEMENT, PRODUCTION AND SERVICE	Good	Competitive	Competitive	Very Good	Very Good	Good
HOME FURNISHING, EQUIPMENT AND SERVICE	Good	Competitive	No Rating	Good	Good	No Rating
INSTITUTIONAL AND HOME MANAGEMENT AND SERVICE	Competitive	Good	Keenly Competitive	No Rating	Good	Good
OTHER OCCUPATIONAL PREPARATION	No Rating	Good	No Rating	No Rating	No Rating	No Rating
OFFICE						
ACCOUNTING AND COMPUTING OCCUPATIONS	Good	Very Good	Competitive	Very Good	Good	Good
COMPUTER AND CONSOLE OPERATORS	Very Good	Good	Very Good	Very Good	Very Good	Good
PROGRAMMERS	Good	Good	Good	Very Good	Good	Good
OTHER BUSINESS DATA PROCESSING	Good	Good	Good	Very Good	Good	Good
FILING, OFFICE MACHINE, AND CLERICAL OCCUPATIONS	Good	Good	Competitive	Very Good	Good	Good
INFORMATION COMMUNICATION OCCUPATIONS	Competitive	Competitive	Keenly Competitive	Good	Competitive	Competitive
MATERIALS SUPPORT, TRANSPORTATION	Competitive	Competitive	Keenly Competitive	Good	Competitive	Good

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
PERSONNEL TRAINING AND RELATED OCCUPATIONS	Competitive	Competitive	Keenly Competitive	Very Good	Competitive	No Rating
STENOGRAPHIC, SECRETARIAL AND RELATED OCCUPATIONS	Very Good	Good	Very Good	Excellent	Very Good	Good
SUPERVISORY, ADMINISTRATIVE AND MANAGEMENT OCCUPATIONS	Good	Good	Competitive	Very Good	Good	Good
TYPING AND RELATED OCCUPATIONS	Very Good	Good	Good	Excellent	Excellent	Good
OTHER OFFICE	Good	Competitive	Competitive	Good	Good	Good
TECHNICAL						
AERONAUTICAL TECHNOLOGY	Competitive	Competitive	No Rating	No Rating	Keenly Competitive	No Rating
ARCHITECTURAL TECHNOLOGY	Competitive	Good	No Rating	No Rating	Competitive	Good
AUTOMOTIVE TECHNOLOGY	Very Good	Good	Very Good	Excellent	Good	No Rating
CHEMICAL TECHNOLOGY	Competitive	Competitive	Keenly Competitive	Good	Good	No Rating
CIVIL TECHNOLOGY	Competitive	Competitive	Competitive	Good	Good	No Rating
ELECTRICAL TECHNOLOGY	Very Good	Very Good	Excellent	Very Good	Very Good	Good
ELECTRONIC TECHNOLOGY	Good	Good	Competitive	Good	Good	Good
ELECTROMECHANICAL TECHNOLOGY	Very Good	Good	No Rating	Good	Good	No Rating
ENVIRONMENTAL CONTROL TECHNOLOGY	Very Good	Good	No Rating	Very Good	Competitive	No Rating
INDUSTRIAL TECHNOLOGY	Good	Good	Keenly Competitive	Very Good	Very Good	No Rating
INSTRUMENTAL TECHNOLOGY	Good	Good	Keenly Competitive	Very Good	Good	Good
MECHANICAL TECHNOLOGY	Good	Very Good	Keenly Competitive	Keenly Competitive	Good	No Rating
METALLURGICAL TECHNOLOGY	Good	Good	No Rating	Very Good	Competitive	No Rating

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS F[illegible]ECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
SCIENTIFIC DATA TECHNOLOGY	Good	Good	Keenly Competitive	Good	Good	No Rating
COMMERCIAL PILOT TRAINING	Competitive	Keenly Competitive	Keenly Competitive	Competitive	Keenly Competitive	Very Good
FIRE AND SAFETY TECHNOLOGY	Good	Good	Good	Good	Good	Good
FORESTRY TECHNOLOGY	No Rating	Good	No Rating	No Rating	Competitive	No Rating
OCEANOGRAPHIC TECHNOLOGY	Keenly competitive	Keenly Competitive	Keenly Competitive	Good	Competitive	Good
POLICE SCIENCE	Good	Competitive	Competitive	Very Good	Good	Good
AIR POLLUTION TECHNOLOGY	Good	Good	Good	No Rating	Competitive	No Rating
WATER AND WASTE WATER TECHNOLOGY	Good	Good	No Rating	No Rating	Good	No Rating
OTHER TECHNICAL	Good	Competitive	No Rating	Good	Good	No Rating
TRADES AND INDUSTRIAL OCCUPATIONS						
AIR CONDITIONING	Very Good	Very Good	Very Good	Very Good	Very Good	Good
APPLIANCE REPAIR	Good	Good	Competitive	Excellent	Good	Good
BODY AND FENDER REPAIR	Good	Very Good	Competitive	Very Good	Good	Competitive
AUTO MECHANICS	Very Good	Very Good	Good	Very Good	Excellent	Competitive
OTHER AUTOMOTIVE	Good	Competitive	Competitive	Excellent	Competitive	No Rating
AVIATION OCCUPATIONS	Competitive	Keenly Competitive	No Rating	Very Good	Competitive	No Rating
BLUEPRINT READING	Good	Competitive	Good	Good	Competitive	No Rating
BUSINESS MACHINE MAINTENANCE	Good	Good	Competitive	Excellent	Good	Good
COMMERCIAL ART OCCUPATIONS	Competitive	Competitive	Keenly Competitive	Very Good	Competitive	No Rating

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
COMMERCIAL FISHERY OCCUPATIONS	Keenly Competitive	Keenly Competitive	Keenly Competitive	Very Good	Competitive	No Rating
COMMERCIAL PHOTOGRAPHY OCCUPATIONS	Competitive	Keenly Competitive	Keenly Competitive	Good	Competitive	No Rating
CARPENTRY	Good	Good	Good	Very Good	Very Good	Good
ELECTRICITY	Very Good	Good	Competitive	Very Good	Excellent	Very Good
MASONRY	Good	Good	No Rating	Very Good	Very Good	Good
PLUMBING AND PIPEFITTING	Good	Very Good	No Rating	Very Good	Excellent	Good
OTHER CONSTRUCTION AND MAINTENANCE	Good	Competitive	Competitive	Very Good	Good	Good
CUSTODIAL SERVICES	Good	Good	Very Good	Excellent	Competitive	Good
DIESEL MECHANICS	Very Good	Very Good	Good	Very Good	Excellent	Very Good
DRAFTING OCCUPATIONS	Good	Very Good	Very Good	Excellent	Very Good	Good
ELECTRICAL OCCUPATIONS	Good	Good	Good	Good	Good	No Rating
ELECTRONIC OCCUPATIONS	Good	Good	Very Good	Good	Good	Good
FABRIC MAINTENANCE SERVICES	Good	Competitive	Keenly Competitive	Competitive	Competitive	Good
SUPERVISOR AND MANAGEMENT DEVELOPMENT	Competitive	Competitive	No Rating	Good	Good	Good
GRAPHIC ARTS OCCUPATIONS	Good	Competitive	Keenly Competitive	Good	Good	Good
INDUSTRIAL ATOMIC ENERGY OCCUPATIONS	No Rating	Good	No Rating	No Rating	Excellent	No Rating
INSTRUMENT MAINTENANCE AND REPAIR OCCUPATIONS	Good	Competitive	Keenly Competitive	Good	Good	No Rating
MARITIME OCCUPATIONS	Keenly Competitive	Keenly Competitive	Keenly Competitive	Good	Keenly Competitive	No Rating
MACHINE SHOP	Good	Very Good	Good	Excellent	Good	Good

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
MACHINE TOOL OPERATION	Good	Good	Good	Excellent	Good	No Rating
SHEET METAL	Good	Good	No Rating	Very Good	Good	Good
WELDING AND CUTTING	Good	Good	Very Good	Very Good	Very Good	Very Good
TOOL AND DIE MAKING	Good	Excellent	Good	Excellent	Good	No Rating
OTHER METALWORKING OCCUPATIONS	Competitive	Competitive	Competitive	Good	Competitive	No Rating
METALLURGY OCCUPATIONS	Competitive	Good	No Rating	No Rating	Competitive	No Rating
BARBERING	Good	Competitive	Keenly Competitive	Competitive	Good	Good
COSMETOLOGY	Good	Very Good	Keenly Competitive	Excellent	Very Good	Good
OTHER PERSONAL SERVICES	Good	Good	Keenly Competitive	Good	Competitive	No Rating
PLASTICS OCCUPATIONS	Good	Good	No Rating	Good	Very Good	No Rating
FIRE FIGHTER TRAINING	Good	Competitive	Keenly Competitive	Very Good	Good	Good
LAW ENFORCEMENT TRAINING	Good	Competitive	Competitive	Very Good	Good	Very Good
OTHER PUBLIC SERVICES	Good	Good	Keenly Competitive	Good	Competitive	Good
QUANTITY FOOD OCCUPATIONS	Good	Good	Good	Good	Very Good	Good
REFRIGERATION	Good	Very Good	No Rating	Excellent	Good	Good
SMALL ENGINE REPAIR	Good	Very Good	No Rating	Very Good	Very Good	Good
STATIONARY ENERGY SOURCES OCCUPATIONS	Competitive	Competitive	No Rating	Very Good	Competitive	No Rating
TEXTILE PRODUCTION AND FABRICATION	Competitive	Keenly Competitive	Keenly Competitive	Good	Competitive	Good
LEATHER WORKING	Competitive	Keenly Competitive	No Rating	Competitive	Competitive	Good
UPHOLSTERING	Good	Competitive	Keenly Competitive	Good	Competitive	Good
WOODWORKING OCCUPATIONS	Good	Good	Good	Very Good	Good	Good

EDUCATIONAL SUPPLY/DEMAND FOR TEXAS VOCATIONAL EDUCATION PROGRAMS

TABLE II REGIONAL

VALID UNTIL 9/1/78

VOCATIONAL PROGRAM	SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS POSTSECONDARY INSTITUTIONS					
	WEST	NORTH	EAST	SOUTHEAST	CENTRAL	SOUTH
OTHER TRADES AND INDUSTRIES	Competitive	Competitive	Competitive	Good	Good	Good
ASSOCIATE DEGREES IN ARTS/SCIENCES	Competitive	No Rating	Very Good	Very Good	Competitive	Competitive

IV

BACCALAUREATE, GRADUATE AND PROFESSIONAL DEGREE PROGRAMS — EMPLOYMENT OPPORTUNITIES

EXPLANATION OF THE TABLE AND SPECIAL CONSIDERATIONS: Program areas in which baccalaureate and graduate degrees are offered by Texas colleges and universities are listed in the first column of Table I. For each program the overall employment opportunity for holders of a baccalaureate or a graduate (or professional when applicable) degree is shown on the same line in bold type. When sufficient data are available to determine projected employment opportunities for specific occupations related to a program area, this information is shown on lines below the overall rating. Projected employment opportunities for specific related occupations are shown in smaller type. Employment projections, which are valid only until September 1, 1978, are expressed in the following terms: EXCELLENT, demand is much greater than supply; VERY GOOD, demand is greater than supply; GOOD, there is a rough balance between demand and supply; COMPETITIVE, demand is probably less than supply; and KEENLY COMPETITIVE, demand is less than supply.

The occupations selected are those which, according to current placement and hiring practices, seem to represent typical jobs applicable to graduates of the program. Listed are those which were identified by multiple sources. There is no intent to provide an exhaustive list of all occupational possibilities for each program. It should be kept in mind that data relative to occupations and employment opportunities represent statewide, consensus type information. Special conditions applicable to women and minorities may create a higher demand for these graduates in some areas.

Occupational titles used in the *Related Occupations* column correspond to titles used by the Texas Employment Commission for occupational needs projections. This report can therefore be used in conjunction with the most current edition of "Changing Horizons," a Texas Employment Commission publication which projects the number of workers needed to fill future job openings created by both expansion and replacement in listed occupations.

LIBERAL ARTS:

Many of the liberal arts programs are not vocationally oriented in the same sense as other areas of study; but, nevertheless, they serve as essential adjuncts to vocational training. A major advantage which liberal arts graduates have is that, while less likely than others to be trained for specific careers, they can react to a wide range of employment opportunities. Consequently, liberal arts graduates, with requisite additional training, can enter a variety of occupations. These include teaching, business management (trainee level), administration, insurance, real estate and retail sales. (Sales occupations, primarily in the retail trade, are projected as GOOD to VERY GOOD as an entry level for most liberal arts program graduates. (See the "General" category at the end of Table I).

All foreign languages have been grouped under one heading. However, broader opportunities exist for Spanish majors (except in secondary teaching) than for other languages. In the case of most languages, employment opportunities are enhanced when a second skill is acquired.

TEACHER EDUCATION:

The short term employment opportunities for teacher education indicate that students who are considering teaching as a career should evaluate carefully the level at which they expect to teach and the subject fields they wish to teach. Teaching fields which currently offer the best opportunities are science, especially in the composite science field, physical science, and life/earth science; mathematics; and industrial arts. Also, opportunities exist for special education teachers with a secondary qualification in language/learning disabilities; bilingual teachers, including those with kindergarten endorsement; speech and hearing therapists; and teachers trained for grades four, five, and six.

An apparent oversupply of teachers exists for homemaking; English; business; guidance associate; and specific social studies fields such as sociology, psychology, history, and government. However, students interested in teaching social studies will find better opportunities in the social studies composite field. While the overall rating for health and physical education teachers and coaches is listed as GOOD, this rating is more applicable to physical education for females than for males — for whom opportunities are limited.

The geographic locations of schools often dictate needs for teachers regardless of teaching level and field. There currently exists a need for teachers in many categories in rural areas of the state and in south Texas. Consequently, students who desire to teach will find greater employment opportunities if they are equipped with as many teaching options as possible and are mobile enough to pursue job opportunities in various locations of the state.

GENERAL COMMENTS:

Employment opportunities in many fields are improved if the prospective employee is flexible in geographic mobility. It should be kept in mind that the table indicates short term eployment opportunities on a statewide basis. Local conditions may vary considerably from metropolitan to rural areas and from one location to another.

Some occupational groups such as retail trade, insurance, and real estate are related to a large number of program areas. These occupations have been listed only for those specific programs for which they have a direct relation. However, opportunities for graduates of most baccalaureate and graduate degree programs appear to be GOOD to VERY GOOD in these occupations. Therefore, they have also been listed at the end of the table under the title "GENERAL."

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EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78 — TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
LIBERAL ARTS			
ANTHROPOLOGY	KEENLY COMPETITIVE Keenly Competitive Keenly Competitive	KEENLY COMPETITIVE Competitive — Keenly Competitive	(Overall) Research Workers Archivists, Curators College and University Teachers
ECONOMICS	COMPETITIVE Competitive Competitive Good Good Good Good Good	GOOD Good Good Good Good Good Good Very Good Good	(Overall) Economists Research Workers Insurance/Agents, Brokers Real Estate/Agents, Brokers Bank/Financial Managers Purchasing Agents, Buyers Stock and Bond Brokers College and University Teachers
ENGLISH	COMPETITIVE Competitive Competitive Keenly Competitive Competitive Keenly Competitive Competitive	COMPETITIVE Competitive Competitive Keenly Competitive Good Competitive Good Competitive	(Overall) Authors Editors, Reporters Advertising Agents Proofreaders Library Assistants Adult Education Teachers College and University Teachers
GEOGRAPHY	COMPETITIVE Competitive	COMPETITIVE Competitive Keenly Competitive	(Overall) Urban/Regional Planners College and University Teachers

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78

TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
LIBERAL ARTS			
GOVERNMENT/POLITICAL SCIENCE	COMPETITIVE Competitive Keenly Competitive Competitive Keenly Competitive Keenly Competitive	COMPETITIVE Competitive Competitive Competitive Competitive Competitive Keenly Competitive	(Overall) Political Scientists Urban/Regional Planners Officials, Public Administrators Research Workers Personnel Labor Relations College and University Teachers
HISTORY	KEENLY COMPETITIVE Keenly Competitive Keenly Competitive Keenly Competitive Keenly Competitive	COMPETITIVE Competitive Competitive Keenly Competitive Competitive Keenly Competitive	(Overall) Historians Archivists, Curators Officials, Public Administrators Research Workers College and University Teachers
JOURNALISM	COMPETITIVE Keenly Competitive Competitive Competitive Keenly Competitive	COMPETITIVE Keenly Competitive Competitive Competitive Keenly Competitive	(Overall) Radio/TV Announcers Editors, Reporters Authors Public Relations, Writers
MATHEMATICS	GOOD Good Very Good Very Good Good Good	GOOD Good Very Good Very Good Good Good Good	(Overall) Mathematicians, Statisticians Computer Programmers Computer Systems Analysts Actuaries Research Workers College and University Teachers

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78 — TABLE I STATEWIDE

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
LIBERAL ARTS			
PHILOSOPHY	KEENLY COMPETITIVE Keenly Competitive Keenly Competitive Competitive	COMPETITIVE — Competitive Competitive Keenly Competitive	(Overall) Officials, Public Administrators Religious/except Clergy Authors College and University Teachers
PSYCHOLOGY	COMPETITIVE Competitive Competitive	COMPETITIVE Competitive Good Competitive	(Overall) Psychologists Social Workers College and University Teachers
SOCIOLOGY	COMPETITIVE Competitive Competitive Good Good Good Competitive	COMPETITIVE Competitive Competitive — — Good Competitive Good	(Overall) Sociologists Social Workers Child Care Workers Rehabilitation Workers Welfare Service Aides Urban/Regional Planners College and University Teachers
SPEECH	COMPETITIVE Competitive Competitive Keenly Competitive Competitive	COMPETITIVE Competitive Competitive Competitive Competitive Good	(Overall) Advertising Agents Public Relations Radio/TV Announcers Editors, Reporters College and University Teachers

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78 — TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
LIBERAL ARTS			
FOREIGN LANGUAGE	COMPETITIVE Competitive Good Very Good — Competitive Good	COMPETITIVE Competitive Very Good Very Good Competitive — Good	(Overall) Interpreters Officials, Public Administrators/Spanish Lang. Social Workers/Spanish Language College and University Teachers Public Relations Workers/Writers Flight Attendants
COMPUTER SCIENCE	EXCELLENT Excellent Excellent Excellent Excellent —	EXCELLENT Excellent Excellent Excellent Excellent Excellent	(Overall) Computer Programmers Computer Systems Analysts Operations/System Research Other Computer Specialists College and University Teachers
CRIMINAL JUSTICE	GOOD Good Good Good Good	GOOD Good Good — Good	(Overall) Law Enforcement Officers Social Workers Security/Protective Services Judicial Counselors, Legal Assistants, Corrections Officers

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78 — TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
SCIENCE			
BIOCHEMISTRY/BIOPHYSICS	COMPETITIVE	COMPETITIVE	(Overall)
BIOLOGY	COMPETITIVE Competitive Competitive Competitive Competitive Competitive — Good	GOOD Good Good Competitive Competitive Good Good Good	(Overall) Biological Scientists Clinical Lab Technol., Technic. Research Workers Health Administrators Agricultural/Biological Technicians College and University Teachers Sales Representatives, Mfg.
BOTANY	COMPETITIVE Competitive Competitive Competitive	COMPETITIVE Competitive Good Good	(Overall) Botanists Ecologists, Environmentalists Agronomists, Horticulturists
CHEMISTRY	GOOD Good Good Good Competitive Competitive — Good	GOOD Good Good Very Good Competitive Good Good Very Good	(Overall) Chemists Chemical Technicians Research Workers Health Administrators Biochemists College and University Teachers Sales Representatives, Mfg.

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/79

TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
SCIENCE			
GEOLOGY	GOOD Good Good Good —	VERY GOOD Very Good Very Good Very Good Good	(Overall) Geologists Research Workers Surveyors College and University Teachers
PHYSICS	GOOD Good Good Good —	GOOD Good Good Very Good Competitive	(Overall) Physicists, Astronomers Research Workers Computer Programmers College and University Teachers
ZOOLOGY	COMPETITIVE Keenly Competitive Good Competitive	GOOD Competitive Very Good Good	(Overall) Zoologists Ecologists, Environmentalists Biological Scientists
EARTH SCIENCE	GOOD	GOOD	(Overall)
MEDICAL TECHNOLOGY	EXCELLENT Excellent Excellent Good	— — — — —	(Overall) Clinical Lab Technologists, Technicians Medical Lab Workers Health Records Technologists, Technicians

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78 — TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
SCIENCE			
MARINE SCIENCE	COMPETITIVE Competitive Competitive Good	— — — —	(Overall) Marine Scientists Marine Transportation Planners College and University Teachers
FINE ARTS			
ART	KEENLY COMPETITIVE Competitive Keenly Competitive Keenly Competitive Competitive	COMPETITIVE Competitive Competitive Competitive Competitive	(Overall) Advertising (Graphics) Workers Designers Painters, Sculptors Art Teachers
MUSIC	KEENLY COMPETITIVE Keenly Competitive Competitive	COMPETITIVE Keenly Competitive Good	(Overall) Musicians, Composers Music Teachers
DRAMA	KEENLY COMPETITIVE Keenly Competitive Keenly Competitive Good	KEENLY COMPETITIVE Keenly Competitive Keenly Competitive Good	(Overall) Actors Drama Teachers Authors
RADIO AND TELEVISION	COMPETITIVE Competitive Competitive Competitive	COMPETITIVE Competitive Competitive Competitive	(Overall) Radio/TV Announcers Radio/TV Producers Public Relations Workers/Writers

EDUCATIONAL SUPPLY/DEMAND INFORMATION
FOR TEXAS SENIOR COLLEGE AND UNIVERSITY PROGRAMS

VALID UNTIL 9/1/78 — TABLE I STATEWIDE

TEXAS COLLEGE AND UNIVERSITY PROGRAM AREA	TABLE I STATEWIDE SHORT TERM EMPLOYMENT OPPORTUNITIES FOR QUALIFIED GRADUATES OF TEXAS INSTITUTIONS		RELATED OCCUPATIONS
	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
FINE ARTS			
ART HISTORY	KEENLY COMPETITIVE	COMPETITIVE	(Overall)
TEACHER EDUCATION			
ELEMENTARY EDUCATION	COMPETITIVE	COMPETITIVE	Elementary Teachers
ART, HEALTH/PHYSICAL ED., MUSIC AND DRAMA (ALL LEVELS)	COMPETITIVE	COMPETITIVE	Teachers
OCCUPATIONAL EDUCATION	GOOD	GOOD	(Overall)
SPEECH AND HEARING THERAPY	GOOD Good Good	VERY GOOD Very Good Very Good	(Overall) Therapists Teachers
BILINGUAL/BICULTURAL EDUCATION	VERY GOOD	VERY GOOD	Teachers
SPECIAL EDUCATION	VERY GOOD	VERY GOOD	Teachers
PRESCHOOL KINDERGARTEN (Excluding Special Ed. and Bilingual)	COMPETITIVE	COMPETITIVE	Teachers

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
TEACHER EDUCATION			
SECONDARY EDUCATION	COMPETITIVE	COMPETITIVE	Secondary Teachers (Overall)
Business	Competitive	Competitive	Secondary Teachers
English	Keenly Competitive	Competitive	Secondary Teachers
Fine Arts	Competitive	Competitive	Art Teachers
	Competitive	Competitive	Drama/Speech Teachers
	Competitive	Competitive	Music Teachers
Foreign Language	Keenly Competitive	Competitive	Secondary Teachers
Health and Physical Education	Good	Good	Coaches, Physical Education Teachers
	Competitive	—	Health/Regulatory Inspectors
	Competitive	—	Health Administrators
	Good	—	Recreation Workers
	—	Good	College and University Teachers
Industrial Arts	Very Good	Very Good	Secondary Teachers
	Excellent	Excellent	Trade/Industrial/Technical Teachers
Journalism	Keenly Competitive	Keenly Competitive	Secondary Teachers
Mathematics	Excellent	Excellent	Secondary Teachers
Science	Good	Good	Biology Teachers
	Good	Good	Chemistry Teachers
	Good	Good	Physics Teachers
	Very Good	Very Good	Broad Field Science Teachers
	Good	Good	Agri/Biological Technicians
	Competitive	Competitive	Research Workers

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
TEACHER EDUCATION			
SECONDARY EDUCATION (Cont.)			
Social Studies	Keenly Competitive	Competitive	Economics Teachers
	Keenly Competitive	Competitive	History Teachers
	Keenly Competitive	Competitive	Government Teachers
	Competitive	Competitive	Psychology Teachers
	Keenly Competitive	Keenly Competitive	Sociology Teachers
Agriculture	Good	Good	Secondary Teachers
	Good	Good	Farm Management Advisors
	Good	Good	Agricultural/Biological Technicians
Home Economics	Competitive	Competitive	Secondary Teachers
EDUCATIONAL MANAGEMENT AND ADMINISTRATIVE SUPERVISION	—	Good	School Administrators
		Excellent	Vocational Education Counselors
GUIDANCE	Keenly Competitive	Good	Counselors/Guidance Associates

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
AGRICULTURE			
GENERAL OR TECHNICAL	GOOD Competitive Competititive Good Good Good Good	GOOD Good Competitive Good Good Good Good	(Overall) Farm Managers Farm Management Advisors Buyers, Shippers/Farm Products Agricultural/Biological Technicians Agricultural Scientists Sales Representatives/ Wholesale
ANIMAL SCIENCE	GOOD Good Competitive Good Good — Good	GOOD Good Good Good Good Good Good	(Overall) Buyers, Shippers/Farm Products Farm Managers Agricultural/Biological Technicians Agricultural Scientists College and University Teachers Sales Representatives/ Wholesale
FORESTRY	KEENLY COMPETITIVE Competitive Keenly Competitive Keenly Competitive —	KEENLY COMPETITIVE Competitive Keenly Competitive Keenly Competitive Keenly Competitive	(Overall) Foresters, Conservationists Agricultural Scientists Agricultural/Biological Technicians College and University Teachers
HORTICULTURE	KEENLY COMPETITIVE	COMPETITIVE	(Overall)

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AGRICULTURE			
WILDLIFE SCIENCE AND MANAGEMENT	COMPETITIVE	COMPETITIVE	(Overall)
RECREATION AND PARKS	COMPETITIVE	COMPETITIVE	(Overall)
AGRICULTURAL ECONOMICS	GOOD Good Good Good — Good Good	VERY GOOD Good Very Good Very Good Very Good Very Good Very Good	(Overall) Farm Management Advisors Bank/Finance Managers Buyers, Shippers/Farm Products College and University Teachers Demonstrators Sales Representatives/ Wholesale
ENTOMOLOGY	COMPETITIVE	COMPETITIVE	(Overall)
ENGINEERING			
AERO-SPACE ENGINEERING	VERY GOOD Very Good —	VERY GOOD Very Good Competitive	(Overall) Aero-astronautic Engineers College and University Teachers

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
ENGINEERING			
ARCHITECTURE	COMPETITIVE Keenly Competitive Competitive Competitive Good —	COMPETITIVE Competitive Competitive Competitive — Competitive	(Overall) Architects Urban/Regional Planners Designers Drafters College and University Teachers
CHEMICAL ENGINEERING	EXCELLENT Excellent —	EXCELLENT Excellent Excellent	(Overall) Chemical Engineers College and University Teachers
CIVIL ENGINEERING	EXCELLENT Excellent Excellent — Excellent	EXCELLENT Excellent Excellent Excellent Excellent	(Overall) Civil Engineers Surveyors College and University Teachers Sales Representatives/Mfg.
ELECTRICAL ENGINEERING	EXCELLENT Excellent Excellent Excellent —	EXCELLENT Excellent Excellent Excellent Good	(Overall) Electrical Engineers Electrical/Electronic Technicians Computer Specialists College and University Teachers
INDUSTRIAL ENGINEERING	VERY GOOD Very Good Excellent Excellent Good —	VERY GOOD Very Good Excellent Excellent Excellent Very Good	(Overall) Industrial Engineers Engineering Technicians Computer Systems Analysts Purchasing Agents, Buyers College and University Teachers

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
ENGINEERING			
MECHANICAL ENGINEERING	EXCELLENT Excellent Excellent — Excellent	EXCELLENT Excellent Excellent Good Excellent	(Overall) Mechanical Engineers Mechanical Engineering Technicians College and University Teachers Sales Representatives/Mfg.
ENGINEERING TECHNOLOGY	VERY GOOD Very Good Excellent	EXCELLENT Excellent Excellent	(Overall) Electrical/Electronic Technicians Public Construction Inspectors
PETROLEUM ENGINEERING	EXCELLENT Excellent —	EXCELLENT Excellent Good	(Overall) Petroleum Engineers College and University Teachers
ENVIRONMENTAL ENGINEERING	VERY GOOD	VERY GOOD	(Overall)
AGRICULTURAL ENGINEERING	VERY GOOD	VERY GOOD	(Overall)

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
HOME ECONOMICS			
CLOTHING AND TEXTILES	GOOD Good Good Good Competitive Good —	VERY GOOD Very Good Very Good Good Good Good Good	(Overall) Textile Technologists Buyers/Wholesale/Retail Home Economists, Home Management Advisors Designers Sales Managers/Retail Trade College and University Teachers
FOOD AND NUTRITION	GOOD Competitive Good Good Good —	GOOD Good Good Good Very Good Very Good	(Overall) Home Economists, Home Management Advisors Dietitians Sales Managers/Retail Trade Research Workers College and University Teachers
HOME AND FAMILY LIFE	COMPETITIVE Competitive Good —	GOOD Competitive Good Good	(Overall) Home Economists, Home Management Advisors Child Care Workers College and University Teachers
HOME ECONOMICS, GENERAL	GOOD Good Good —	GOOD Good Good Good	(Overall) Home Economists, Home Management Advisors Demonstrators College and University Teachers

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
LAW	—	Generally GOOD to COMPETITIVE depending on field of concentration and geographic area	Lawyers
SOCIAL SERVICES	COMPETITIVE Competitive Good	GOOD Good —	(Overall) Social Workers Welfare Service Aides
LIBRARY SCIENCE	GOOD	EXCELLENT	Librarians
VETERINARY MEDICINE	—	COMPETITIVE	Veterinarians
NURSING	EXCELLENT Excellent Exceilent	EXCELLENT Excellent —	(Overall) Registered Nurses Medical Assistants
PHARMACY	GOOD	GOOD	Pharmacists

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
BUSINESS ADMINISTRATION			
ACCOUNTING	VERY GOOD Excellent Very Good Very Good —	EXCELLENT Excellent Excellent Very Good Very Good	(Overall) Accountants Bank/Financial Managers Actuaries College and University Teachers
ADVERTISING	COMPETITIVE Competitive Competitive	COMPETITIVE Competitive Competitive	(Overall) Advertising Agents, Salespersons Public Relations
FINANCE	GOOD Good Good Good Good Very Good Good	VERY GOOD Very Good Good Good Very Good Excellent Very Good	(Overall) Bank/Financial Managers Creditpersons Stock and Bond Brokers Purchasing Agents, Buyers Insurance Adjusters, Examiners, Investigators Sales Managers/Retail Trade
GENERAL BUSINESS	GOOD Good Good Good Good —	VERY GOOD Good Excellent Very Good Very Good Good	(Overall) Personnel Labor Relations Real Estate Appraisers Insurance Agents, Brokers Sales Representatives, Mfg. College and University Teachers
MANAGEMENT	GOOD Good Very Good Good Good Competitive	GOOD Very Good Very Good Good Good Good	(Overall) Personnel Labor Relations Credit persons Office Managers Sales Managers Officials, Public Administrators

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BUSINESS ADMINISTRATION			
MARKETING	GOOD	VERY GOOD	(Overall)
	Good	Good	Buyers, Wholesale/Retail
	Good	Very Good	Sales Managers
	Good	Good	Purchasing Agents, Buyers
	Very Good	Very Good	Market Research Analysts
	Competitive	—	Advertising Agents
	Good	—	Stock and Bond Brokers
SECRETARIAL SCIENCE AND OFFICE ADMINISTRATION	GOOD	VERY GOOD	(Overall)
	Good	Very Good	Office Managers
	Good	Very Good	Insurance Adjusters, Examiners and Investigators
	Very Good	Very Good	Secretaries
	Good	—	Library Assistants
	Good	—	Administrative Assistants
COMPUTER SCIENCE — DATA PROCESSING	VERY GOOD	VERY GOOD	(Overall)
	Very Good	Very Good	Computer Systems Analysts
	Very Good	—	Computer Programmers
	Very Good	Very Good	Computer Specialists
INTERNATIONAL BUSINESS	KEENLY COMPETITIVE	COMPETITIVE	(Overall)
OPTOMETRY	GOOD	GOOD	Optometrists
TECHNOLOGY	VERY GOOD	—	(Overall)

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	BACCALAUREATE DEGREE	GRADUATE OR PROFESSIONAL DEGREE	
GENERAL (Applicable to most program areas)	Good to Very Good Good to Very Good Good to Very Good	Good to Very Good Good to Very Good Good to Very Good	Salespersons, Retail Trade Insurance Agents, Brokers, etc. Real Estate Agents, Brokers, etc.

UNIVERSITY OF CALIF.
LOS ANGELES

MAR 2 4 1978

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The preparation and publication of this report were financed in part by a Comprehensive Planning Grant under Section 1203 of the U.S. Higher Education Act of 1965, as amended.